SUMMARY SCORESHEET FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: Pacific Fruit Express

CITY, COUNTY: Tucson, Pima

EPA ID #: AZD045804325 EVALUATOR: John Robertson

PROGRAM ACCOUNT #: DATE: October 13, 1993

Lat/Long: 32° 12' 08" N / 111° 56' 20.5" W T/R/S: T14S R14E Sec 20 NE¼ SW¼ NW¼

THIS SCORESHEET IS FOR A:

___ PA ___ SSI X LSI ___ SIRe ___ PA Redo

___ Other (Specify):

RCRA STATUS (check all that apply):

X Generator ___ Small Quantity Generator ___ Transporter ___ TSDF

___ Not Listed in RCRA Database as of (date of printout): ¦ ¦

STATE SUPERFUND STATUS:

___ BEP (date): ¦ ¦ ___ WQARF (date): ¦ ¦

X No State Superfund Status (date): 10 ¦ 13 ¦ 93

	S pathway	S^2 pathway
Groundwater Migration Pathway Score (S_{gw})	100	10,000
Surface Water Migration Pathway Score (S_{sw})	*	
Soil Exposure Pathway Score (S_s)	*	
Air Migration Pathway Score (S_a)	*	
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		10,000
$\frac{(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)}{4}$		2,500
$\sqrt{\frac{(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)}{4}}$		50

*Pathways not assigned a score (explain):

The Surface Water, Soil, and Air pathways were not evaluated because the nearest surface water body (Railroad Wash, an ephemeral stream) has no drinking water intakes; and there are no residences, day care centers or schools within 200 feet of the site.

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors

		Maximum Value	Projected Score	Rationale	Data Quality
	Likelihood of Release				
1.	Observed Release	550	--		
2.	Potential to Release				
	2a. Containment	10	10	1	H
	2b. Net Precipitation	10	1	2	H
	2c. Depth to Aquifer	5	3	3	H
	2d. Travel Time	35	25	4	H
	2e. Potential to Release [Lines 2a × (2b + 2c + 2d)]	500	290		
3.	Likelihood of Release (Higher of lines 1 or 2e)	550	290		
	Waste Characteristics				
4.	Toxicity/Mobility	[a]	100	5	H
5.	Hazardous Waste Quantity	[a]	100	6	H
6.	Waste Characteristics [Lines 4 × 5, then use Table 2-7]	100	10		
	Targets				
7.	Nearest Well	50	20	7	H
8.	Population [d]				
	8a. Level I Concentrations	[b]	--		
	8b. Level II Concentrations	[b]	--		
	8c. Potential Contamination	[b]	9754	8	
	8d. Population [Lines 8a + 8b + 8c]	[b]	9754		
9.	Resources	5	5	9	H
10.	Wellhead Protection Area	20	0	10	H
11.	Targets [Lines 7 + 8d + 9 + 10]	[b]	9779		
	Likelihood of Release				
12.	Aquifer Score [(Lines 3 × 6 × 11) ÷ 82,500] [c]	100	100		
	Groundwater Migration Pathway Score				
13.	Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)	100	100 [c]		

[a] Maximum value applies to waste characteristics category.
[b] Maximum value not applicable.
[c] Do not round to the nearest integer.
[d] Use additional tables.

Aquifer Evaluated All

GROUNDWATER PATHWAY CALCULATIONS

8. Population

Actual Contamination

Well Identifier	Contaminant Detected	Concentration (Note Units)	Benchmark	(A) Apportioned Population Well Serves	(B) * Level Multiplier	(A × B)
				Sum (A × B) Level I		
				Sum (A × B) Level II		

* Multipliers
- Level I = 10
- Level II = 1

Potential Contamination

Distance (miles)	Total Number of Wells within Distance Ring	Total Population Served by Wells Within Distance Ring	Distance-Weighted Population Values "Other Than Karst" (A) * (Table 3-12)
0 to ¼	1	18,402	16,325
> ¼ to ½	1	18,402	10,122
> ½ to 1	1	18,402	5,224
> 1 to 2	21	18,447	2,939
> 2 to 3	43	184,094	21,222
> 3 to 4	108	315,910	41,709
		Sum (A)	97,541

Potential contamination $= \frac{\text{Sum (A)}}{10} = \frac{97{,}541}{10}$

* For drinking water wells that draw from a karst aquifer, see the Distance-Weighted population Values for "Karst" in Table 3-12.

Aquifer Evaluated All

REFERENCES FOR SCORES: PACIFIC FRUIT EXPRESS

October 13, 1993

Note that the tables and figures referred to herein are found in 40 CFR Part 300 Hazard Ranking System, Final Rule, December 14, 1990.

1. There is no liner present beneath any of the source areas within the facility boundaries.

2. Site is located within area showing annual net precipitation of one inch (Table 3-2).

3. Depth to aquifer (114 ft: perched aquifer; 204 ft: regional aquifer) entered into Table 3-5 yields a Depth to Aquifer Factor value of 3 for both perched and regional aquifers.

4. Hydraulic conductivity of vadose zone sediments (sandy silts: log of on-site perched aquifer monitor well) of 0.0004 cm/sec (Table 3-6); thickness of layer of lowest hydraulic conductivity (65 ft of sandy silt); these values entered into Table 3-7 yield Travel Time Factor value of 25.

5. Groundwater sampling completed in conjunction with the SI for this facility indicated none of the five wells sampled (one located on site, and four located within approximately one mile of the property boundaries) are characterized by either Level I or Level II contamination. The Toxicity Factor for chromium (one of the contaminants detected by on site soil sampling, and that which has the highest Toxicity Factor of any of the hazardous substances/wastes maintained on site) is 10,000. The Mobility Factor for chromium is 10^{-2}. These values, when inputted into Table 3-9 give a Toxicity/Mobility Factor of 100.

6. The SI identifies the following hazardous waste types and the quantities associated with them at this facility: the surface impoundment (1,127,000 gallons); the solvent tank (3,000 gallons); and the waste pile (667 cubic yards). The corresponding factor values (from Table 2-5) are 2,254, 1,200, and 267, respectively. The total factor value is thus 3,721, which when inputted into Table 2-6 yields a Hazardous Waste Quantity Factor Value of 100.

7. There is no information to indicate any of the drinking water wells within the target distance limit are subject to either Level I or Level II contamination. The nearest drinking water well to the facility is located within ¼ mile. Table 3-11 gives a Nearest Well Factor value of 20.

8. The City of Tucson (COT) currently (as of July 1, 1992) served drinking water to 570,453 persons. As of July 1, 1992, there were 31 active public supply wells within the COT municipal system. This results in 18,402 persons served per well, as none of the wells provides greater than 40% of the total groundwater supply. There is one drinking water well (a COT well) located within ¼ mile of the facility; one COT well between ¼ and ½ mile of the site; and one COT well between ½ and 1 mile of the site. There are approximately 21 drinking water wells located between 1-2 miles of the site, one COT well and 20 domestic wells. The domestic wells serve approximately 45 persons, based upon 1990 census figures which indicate approximately 2.24 persons per household in this area, for a total of approximately 18,447 persons served. There are approximately 43 drinking water wells located between 2-3 miles from the site, 33 domestic wells and 10 COT wells, serving a total of approximately 184,094 persons. There are approximately 108 drinking water wells located between 3-4 miles from the site, 90 domestic wells, 17 COT wells, and one private water company well (the Ray Water Co., serving approximately 2,874 persons), serving a total of approximately 315,910 persons.

9. There are wells within four miles of the site which supply water for irrigation of commercial food or

forage crops, and for watering of commercial livestock.

10. There are no designated Wellhead Protection Areas which either encompass the source area of this site, or which encompass the area of impacted groundwater.